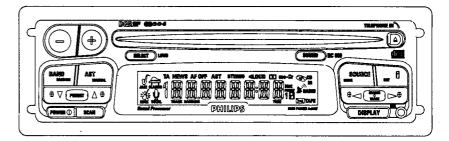
CD car radio 22RC634/00 22RC639/00../17

22RC669/00





For repair information of the CD-player see Service Manual of the CDM-M2 mechanism

Service Manual



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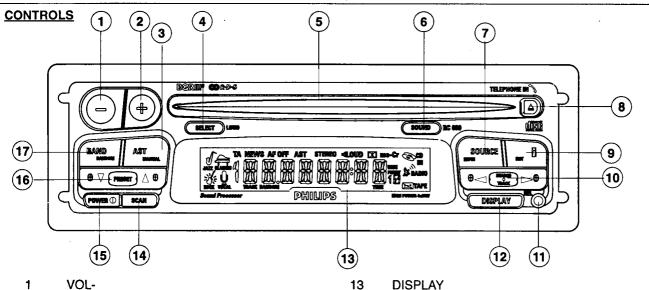
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Subject to modification

4822 725 25872







SCAN

ON/OFF

PRESET SELECTION

BAND / RANDOM

14

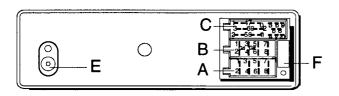
15

16

17

- VOL-1
- 2 VOL+
- 3 **AUTOSTORE / MANUAL**
- 4 **AUDIO SELECTION / LOUDNESS**
- 5 **CD OPENING**
- 6 SOUND
- 7 **SOURCE SELECTION / MUTE**
- 8 **EJECT DISK**
- 9 TRAFFIC INFORMATION NEWS / INIT MODE
- SEARCH / TRACK 10
- RELEASE BUTTON FOR DETACH UNIT 11
- 12 FREQUENCY / PTY

CONNECTIONS



13 16 19 15 18 14 17 20 В 10A 7

- A1 Phone Mute
- A2 Remote Ground
- A3 Remote Input
- A4 +12V Permanent
- +12V Switched (antenna supply) **A5**
- A6
- +12V Ignition Key or Permanent Α7
- Ground **8**A

- B1 Rear Right + B2 Rear Right -Front Right +
 - Front Right -
 - Front Left + B5
 - B6 Front Left -
 - B7 Rear Left +
 - B8 Rear Left -

- C1 Line out RL
- C2 Line out RR
- C3 Line out GND
- C4 Line out FL RC669 only
- C5 Line out FR RC669 only

RC669 only

C6 +12V SWITCHED

- G1 Gateway
- G2 Gateway
- Aerial Plug
- Fuse 10A

- C18 Input reference
- C19 Input telephone
- C20 Input telephone

22RC634/00-22RC639/00/17

22RC669/00

TECHNICAL DATA

GENERAL

Power supply

:14.4V DC

Dimensions :180x150x51.8 mm CD

CD mechanism

Crosstalk at 1KHz

:CDM-M2 :60 dB

16-20KHz :50 dB

RADIO

LW MW

: 144-288 KHz : 531-1629 KHz

FM

: 87.5-108 MHz

IF-AM

: 450 KHz / 10.7 MHz : 10.7 MHz / 72.2 MHz

IF-FM Sensivity 26dB S/N

: 26 μV (LW)

: $3,4 \mu V (FM)$

Limitation α-3dB

: 18 µV (MW)

: 4 to 12 μ V

AMPLIFIER

Output power

 $4x18W / 4\Omega (THD = 10\%)$ \pm 3dB at 60Hz

Loudness

:+0dB ± 3dB at 10kHz :12 ± 3dB at 10kHz

Treeble control

Bass control

Balance control

Fader

4X line out

2X line out Line in mono : 10 ± 3 dB at 60Hz :50 +0-20dB

:50 +0-20dB

RC669 only RC634 - 639

RC669 only



WARNING

All ICs and many other semi-conductors are susceptible to electrostatic discharges (ESD). Careless handling during repair can reduce life drastically.

When repairing, make sure that you are connected with the same potential as the mass of the set via a wrist wrap with resistance. Keep components and tools also at this potential.

ESD equipment available:

Anti-static table mat large 1200X650X1.25mm 4822 466 10953 small 600X650X1.25mm 4822 466 10958

4822 395 10223 Connection box (1Mohm) Extendible cable (to connect wrist band 4822 320 11307

to connection box)

Connecting cable (to connect table mat 4822 320 11305

to connection box)

Earth cable (to connect any product to 4822 320 11308

mat or box)

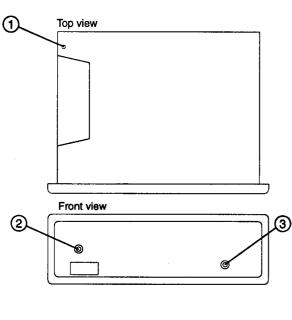
Complete kit ESD3 (combining all above 4822 310 10671

products)

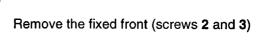
wristband tester 4822 344 13999

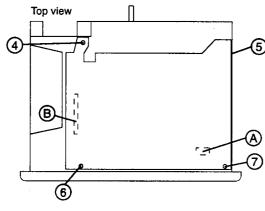
> 22RC634/00-22RC639/00 22RC639/17-22RC669/00

REMOVING THE PWB

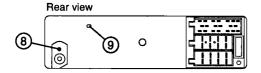


Remove the cover top (screw 1) and the cover bottom

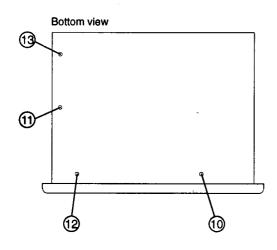




Remove the deck (screws 4,5,6 and 7)
Disconnect the A connector
Disconnect the B connector



Remove the antenna plug bracket (screws 8)
Remove the main PWB (screws 9 to 17)



Left view (14) (15) (15)

22RC634/00-22RC639/00 22RC639/17-22RC669/00

INIT MODE:

Entering the Init Mode:

Switch ON the set. Press the 🛊 key for at least 2 seconds, until you hear a beep.

The display shows "INIT".

Press the or key one or more times until the option you want to modify is displayed.

Briefly press the 🛔 key one or more times to adjust the choice.

- The choice shown on the display will be memorized by the set when you select another option or leave the "INIT" mode.

Press the 🕻 key for at least 2 seconds to leave the "INIT" mode.

Note: the set automatically leaves the "INIT" mode about 1 minute after your last operation.

List of "INIT" options: (Initial factory settings shown in **bold**).

Option ✓ or ►	Choice	Usage
COLOUR	Green or Orange	Select the lighting colour of the LCD display.
VIEW	-1 , 0 , +1	Adjustment of the viewing angle of the set's LCD display.
SRC	CDC or AUX	Change source option between a CD Changer and Auxiliary. If CDC is connected, changing source to AUX is not allowed and it will generate a error bleep if user tries to do so. CDC has higher priority than AUX. If setting is in AUX, and a CDC is connected, the set will switch set the source type to CDC.
REMOTE	NO or YES	Disable or enable the PHILIPS remote-control.
PHONE	NO or LOW or HIGH	Enable or Disable the Telephone Mute switch. High corresponds to triggering from 0 to 5v, Low corresponds to a trigger from 5v to 0v on A1 connector Pin.
SRCH	DX or LO	Select the search level for FM band.
AF	ON of OFF	Set the AF mode for each preset. When user select AF OFF, the AF OFF flag will not be switch ON until user exit the INIT mode.
RADIO	EUROPE or AMERICA	Select the band range for Europe or America or Asia. When in America, LW is suppressed and MW is called AM. When in America, AM is 10 kHz and no RBDS.
MW	ON or OFF	Enable or Disable the Medium Wave bands.
LW	ON or OFF	Enable or Disable the long Wave band, only possible to toggle in Tuner EUROPE.

TEST MODES:

2) KEYBOARD TEST

This test is called by switching the set On while keeping pressed the 🖠 key. The display shows: T - -

Then press each key at least one time. A different number will appear each time you press a new key (e.g. T 01),according to the table below:

Vol -	Vol+	<u> </u>	SEL	Sound	BND	AST	SRC	i	▼	A	7		SCAN	DISP
T01	T02	T03	T04	T05	T06	T07	T08	T09	T10	T11	T12	T13	T14	T15

When all the keys are pressed, if all is correct, the display shows all segments lit.

This test can be exited at any moment by switching Off the set.

1) DISPLAY TEST

At the end of the keyboard test, when all the segments are displayed, press $\frac{1}{2}$ key. The display shows in sequence, each time you press $\frac{1}{2}$ key, 5 different screens as follows:





2



The last screen shows all segments lit.

To quit this mode, switch Off the set.

3) FIELD TEST

This test is called by pressing simultaneously \(\bigs \) and DISPLAY keys (set On).

The display shows:

4 digits indicating the tuned frequency

5th digit: Selected frequency quality

6th digit: Best AF quality

7th digit: Multipath 0..F (0 = no multipath)

8th digit: Field level 0..F (F = best fieldstrength)

This test can be exited by switching Off the set or by pressing again presets keys 2 and 5 at the same time.

4

4) SOFT VERSION AND CHECK SUM INDICATION

This test is called by pressing simultaneously SCAN and DISPLAY keys (set On)

The display shows two screens during 2 seconds each.

The first screen shows the last four number of the soft version.

The second screen shows the check sum.

DEMO MODE:

This mode is called by switching the set On while keeping pressed the DISPLAY Key.

The set displays in sequence all its features.

To exit this mode, switch the set OFF and follow the same procedure as for calling this mode (DISPLAY Key + set On).

CHECKS AND ALIGNMENTS

No alignment is needed for radio part. IC96 tuner is pre-aligned.

For all measurement, please refer to "General Check & Alignment procedures for Car Systems' 4822 725 25456, unless otherwise stated.

Checks:

- Supply voltages (set Off)

SET OFF	Voltage	Current + Acc ON	V reset Pin 4 μP	Vdd Pin 40 μP	V hold Pin 8 μP	Current + Acc OFF
Acc supply	+14.4V	< 3mA	min Vdd x 0.7	min 4.5V max 5.5V	max Vdd x 0.3	< 2mA

- Supply voltages (set On)

V reset	V	V hold	V 5V	V 8.5V	V EEprom
pin 4 μP	pin 40 μP	pin 8 μP	E 7417	E 7418	pin 8
max Vdd x 0.7	min 4.5V max 5.5V	min Vdd x 0.7	min 4.7V max 5.4V	min 8.0V max 8.9V	min 4.5V max 5.5V

- Reference oscillator frequencies

device	μP 7500	SAA6579 7260	MSM6307 7600 (RC659 only)
pin	3	13	25
frequency	8 MHz 0.5%	4.332 MHz 20ppm	6 MHz 0.5%

- Line out (RC659 and RC629 only)

Conditions: 98MHz, fm = 1KHz, Δf = 11.25KHz, lines outputs loaded with 10k resistors.

Output = $500 \text{ mV} \pm 2 \text{dB}$ at volume max.

CD part

1 4822 397 30104 1	Audio Signal Disk 1 4822 397 30184	Crosstalk: Disk 1 track 67 to 71	limit : < -60dB	nominal :< -30dB
--------------------	---------------------------------------	----------------------------------	-----------------	------------------

Test CD	Test	Result
Eccent-music 150um 4822 397 30279	Insert disk and play track 01	No failure
Vertical deviation 4822 397 30282	Check loading, display of number of tracks and total time. Select track no 9 time 00.20 listen to the disk during 4 seconds	no electrical nor mechanical noise

FM part

- Demodulated FM levels

Input	Output of IC96 (pin 15 & 16)
98 MHz	300 mV ± 50 mV

- Limiting point α -3dB

Range	Input	min	nominal	max
87.5 to 108 MHz	1Khz	4μV	7μV	12μV

- Check of search levels

Search levels	Input	Dx: 7μV < X < 23μV
Searchievers	98 MHz	Local : 120μV < X < 360μV

- Pause detector

f = 94MHz	$\Delta f = 0.6KHz$	Pin 6 of 7230 < 0.8V
fm = 1KHz	$\Delta f = 3.5KHz$	Pin 6 of 7230 > 2.0V

AM part

- Usable sensivity 26dB S/N

Sensivity at 26dB	207 KHz	m = 30%	1KHz	< 38μV	typ 28
S/N	1053 KHz	111 = 30 /6	11112	< 30μV	typ 22

- Check of search levels

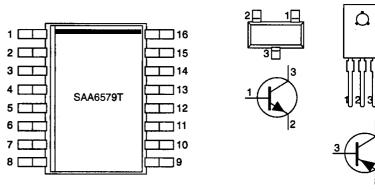
Conditions: start with set in FM DX mode, change to AM = 1053KHz

Search levels	Input	low : 35μV < X < 140μV
Ocarcii icveis	1053KHz	high : 7μV < X < 28μV

INTEGRATED CIRCUITS

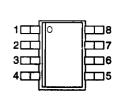
SAA6579T Radio Data System demodulator

SYMBOL	PIN	DESCRIPTION
QUAL	1	quality indication output
RDDA	2	RDS data output
V _{ref}	3	reference voltage output (0.5 V _{DDA})
MPX	4	multiplex input signal
V _{DDA}	5	+5V supply voltage for analog part
V _{SSA}	6	ground for analog part (0V)
CIN	7	subcarrier input to comparator
SCOUT	8	subcarrier output for reconstruction filter
TCTR	9	test control
TEN	10	test enable
V _{SSD}	11	ground for digital part (0V)
V _{DDD}	12	+5V supply voltage for digital part
OSCI	13	oscillator input
osco	14	oscillator output
T57	15	57kHz clock signal output
RDCL	16	RDS clock output



MC4558 Dual op amp

PIN	DESCRIPTION				
1	Output 1				
2	Inverting input 1				
3	Non inverting input 1				
4	Vcc -				
5	Non inverting input 2				
6	Inverting input 2				
7	Output 2				
8	Vcc +				

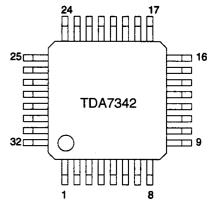


BD438

BC847B

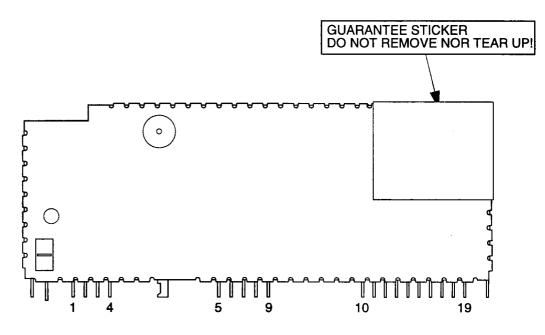
TDA7342 Digitally controlled audio processor

SYMBOL	PIN	DESCRIPTION	SYMBOL	PIN	DESCRIPTION
TRR	1	Treble control capacitor right	BIN L	17	Bass control input left
IN R	2	Input right	BOUTL	18	Bass control output left
OUT R	3	Output right	BIN R	19	Bass control input right
LOUD R	4	Input loudness, right control part	BOUT R	20	Bass control output right
IN R3	5	Input 3 right source (CD)	SM	21	Soft mute control
IN R2	6	Input 2 right source	OUT RR	22	Output rear right
IN R1	7	Input 1 right source	OUT LR	23	Output left right
MONO	8	Input mono source	OUT RF	24	Output right front
LOUDL	9	Input loudness, left control part	OUT LF	25	Output left front
CD GND	10	Ground input CD	DIG GND	26	Bus ground
IN L3	11	Input 3 left source (CD)	SDA		I2C Data
IN L2	12	Input 2 left source	SCL	28	I2C Clock
IN L1	13	Input 1 left source	CREF	29	Supply reference capacitor
CSM	14	Soft mute control capacitor	Vs	30	Supply voltage
IN L	15	Input right	GND	31	Ground
OUTL	16	Output left	TRL	32	Treble control capacitor left



IC96 MODULE

Not reparable module. Do not open and do not try to repair yourself!



Connections

- 2 Ground
- 5 Inlock detector pin
- 6 Vcc 8.5V
- 7 Ground
- 8 Vcc 5.0V

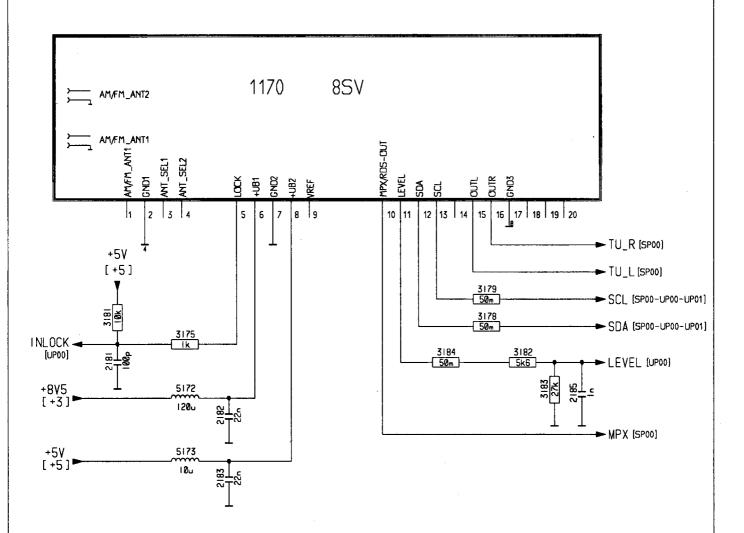
- 10 Multiplex / RDS output signal
- 11 Level
- 12 I²C SDA
- 13 I²C SCL
- 15 tuner output L
- 16 tuner output R
- 17 Ground

Quick reference data:

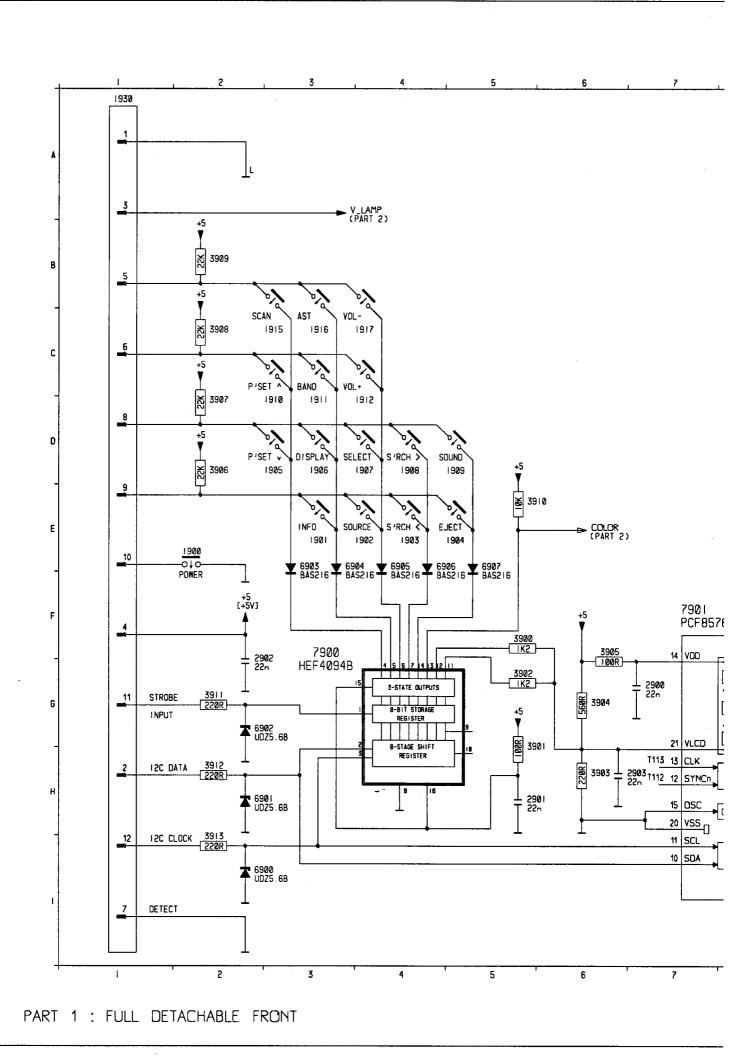
- 1) AM part
 - -Longwave/Mediumwave 144-1710 KHz (inclusive USA)
 - -Shortwave 5850-6250 KHz 49 meter band
 - -AM double super concept
 - -AM IF1 10.7MHz
 - -AM IF2 450KHz
 - -First VCO frequency above input signal frequency
 - -Second X-tal oscillator frenquency below IF1
 - -Usable sensivity α 26dB MW = 14 μ V typ.

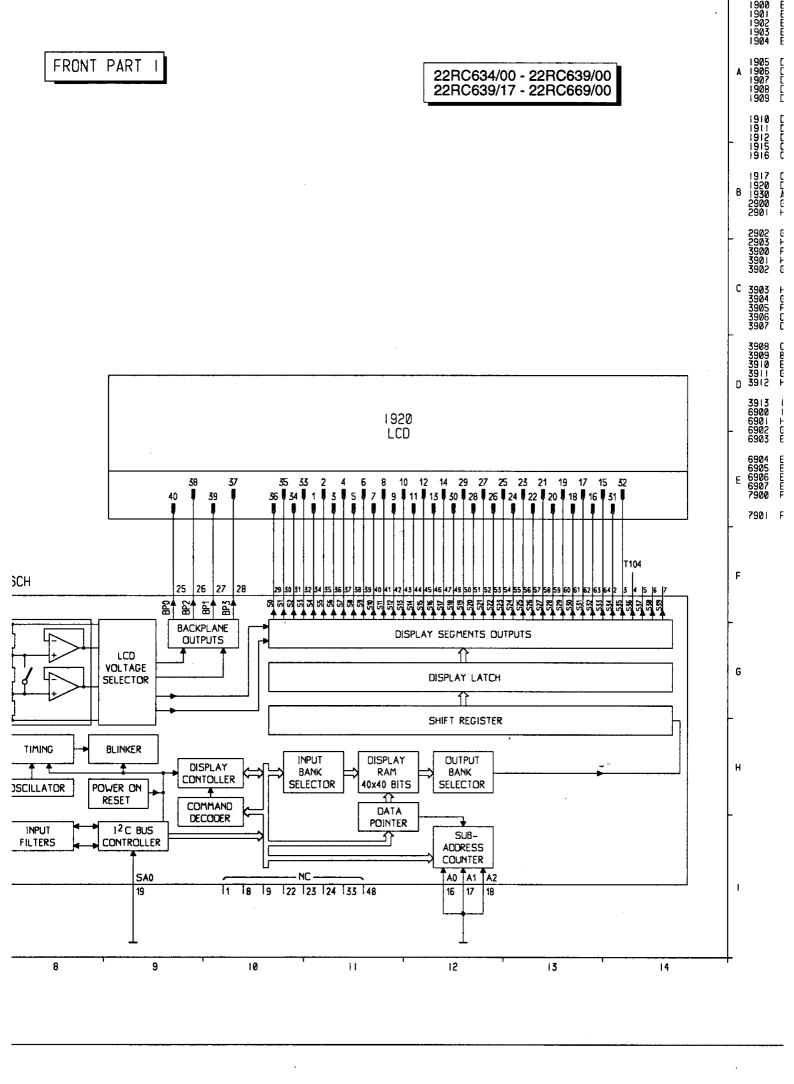
- 1) FM part
 - -FM 87.5 108MHz
 - -FM double super concept
 - -FM IF1 72.2MHz
 - -FM IF2 10.7MHz
 - -First VCO frequency above input signal frequency
 - -Second X-tal oscillator frequency below IF1
 - -Usable sensivity $\alpha 26dB = 2.5\mu V$ typ.
 - -THD 1mV δf =75KHz = 0.5% typ
 - -Signal to noise ratio = 65dB typ
 - -Locktime synthetizer <2mSec

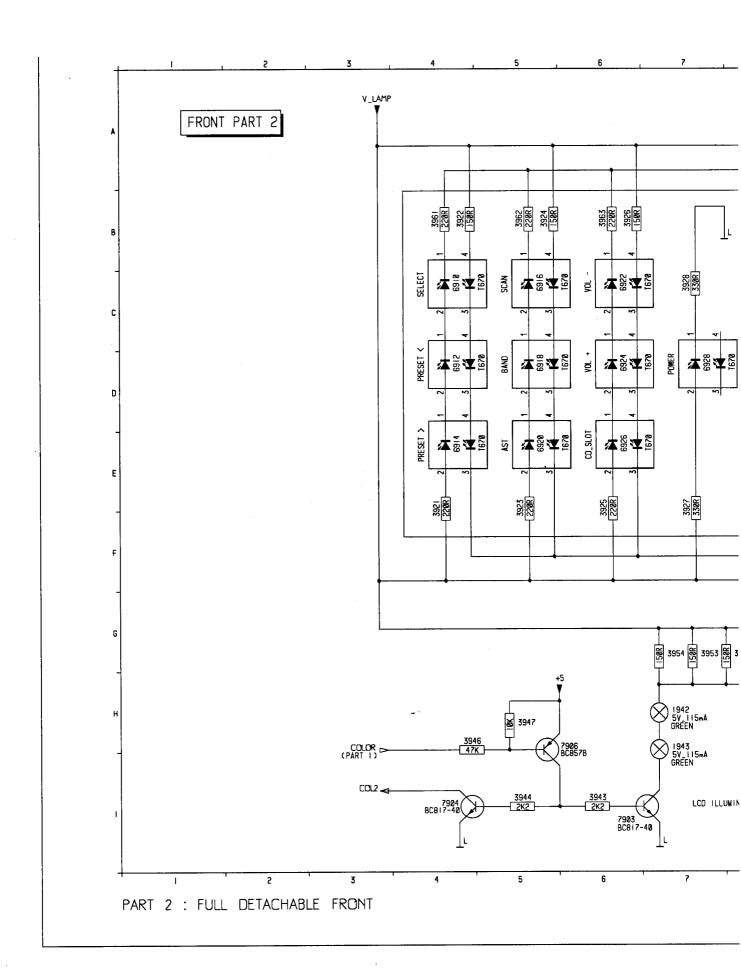


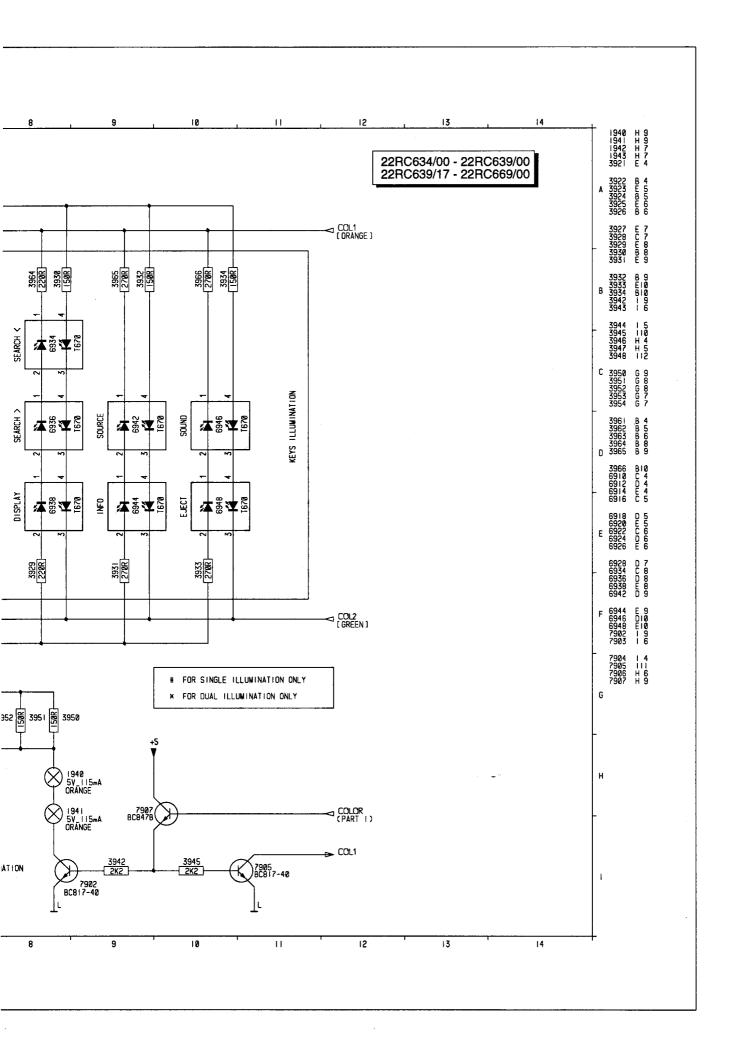


22RC634/00 - 22RC639/00 22RC639/17 - 22RC669/00

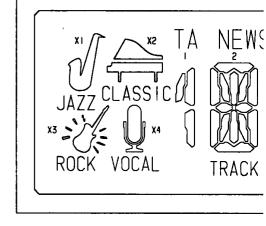






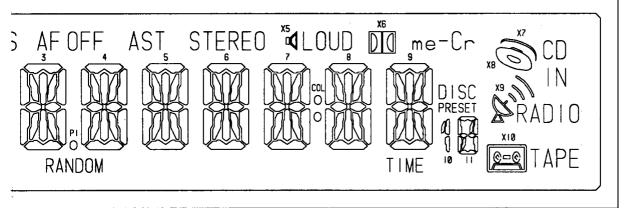


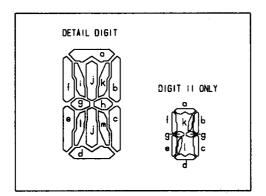
	,				
7901 DRIVER PINS	1920 LCD P1NS	COM I	COM 5	COM 3	COM 4
- 3	ı	COM I			
2	2		COM 2		
49	3			COM 3	
64	4		<u> </u>		COM 4
50	5	21	2g	2e	lbck
63	6	2 i	2 j	21	TA
51	7	20	2k	2 m	2 d
52	8	2b	2h	2c	TRACK
62	9	3 (3g	3e	NEWS
53	10	3 i	3 j	31	AF OFF
60	11	3a	3k	3 m	3 d
54	12	3b	3h	3c	RANDOM
61	13	4 f	49	4 e	PΙ
59	14	4 i	4 j	41	AST
58	15	4a	4k	4 m	4 d
57	16	4b	4h	4c	CLASSIC, X2
56	17	5 f	5g	5e	JAZZ, XI
55	18	5 i	5 j	51	ROCK, X3
47	19	5a	5k	5m	5 d
46	20	5b	5h	5c	VOCAL, X4
45	21	6 f	6g	6e	IId
44	22	6 i	6 j	61	TAPE, XIO
43	23	6a	6k	6 m	6d
42	24	6Ь	6h.	6c	RADIO, X9
41	25	71	7g	7e	IN
40	26	7 i	7 j	71	STEREO
39	27	70	7k	7 m	7 d
38	28	7b	7h	7c	
37	29			COL	
34	30	81	89	8e	LOUD, X5
3 5	31	8 i	8 j	81	X6
36	32	80	8k	8 m	89
32	33	8b	8h	8c	
31	34	9 f	9g	9e	me-Cr
30	35	9 i	9 _j	91	_~ X7
29	36	90	9k	9m	9d
28	37	9b	9h	9c	TIME
27	38	DISC	PRESET	18 bck	CD, X8
26	39	Hg	lik	11 f	lle
25	40	Hc	116	lla	111
		<u> </u>	<u> </u>	L.,,,	

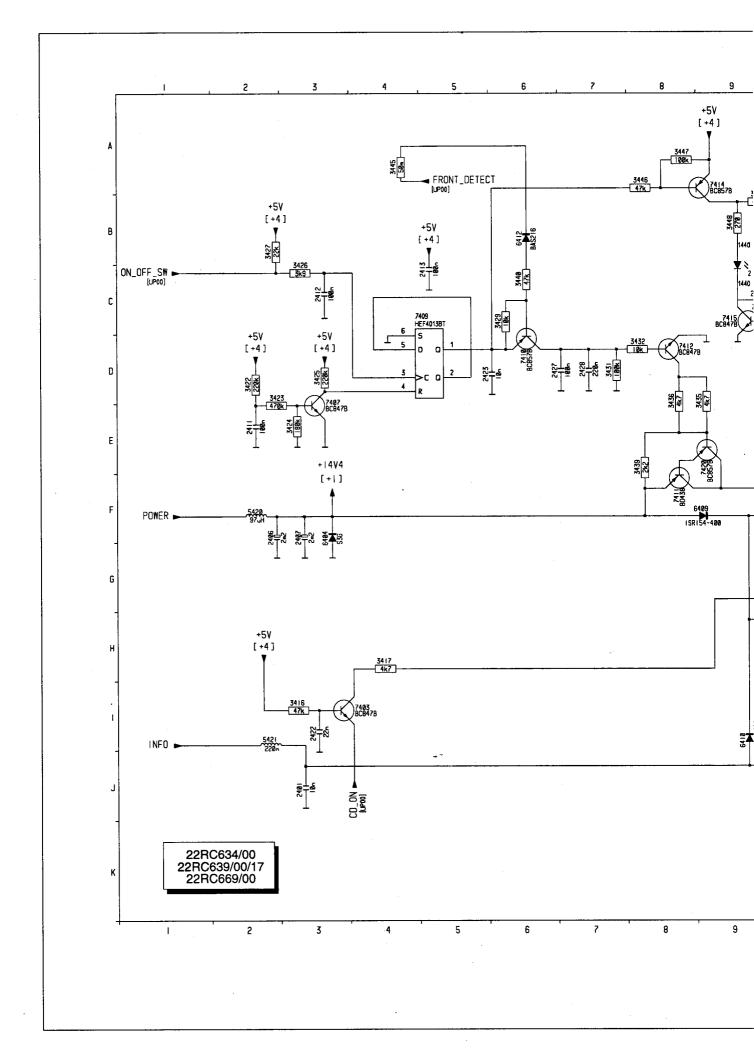


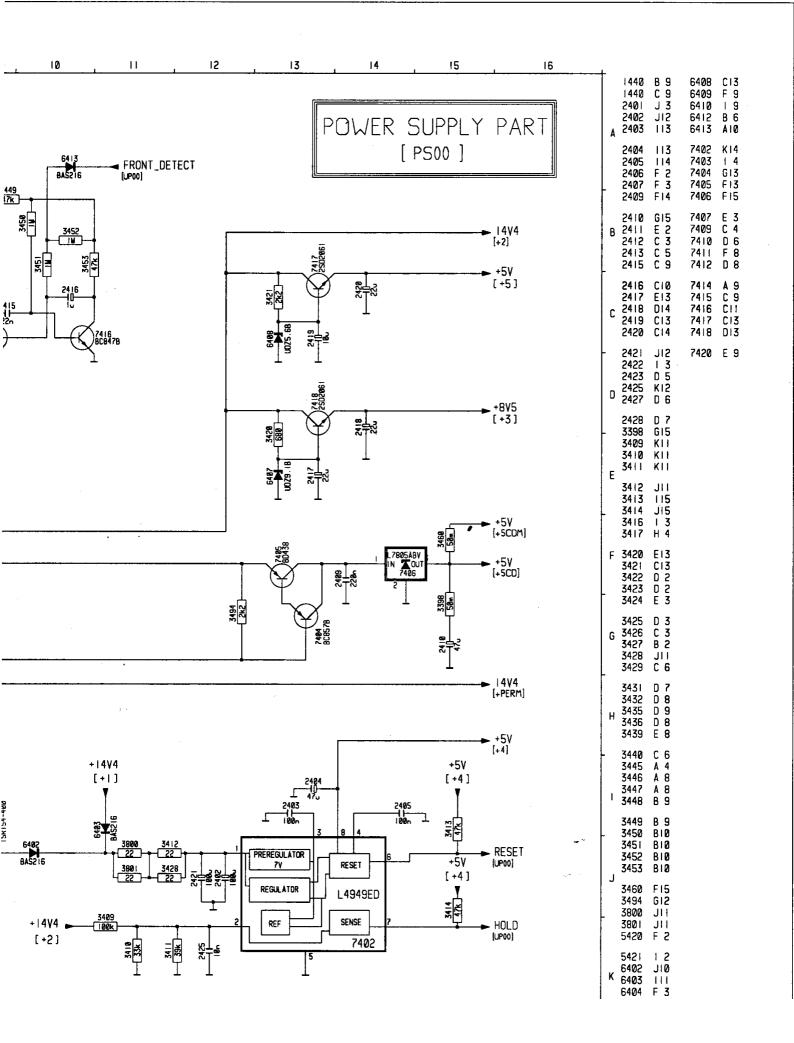
FRONT PART 3

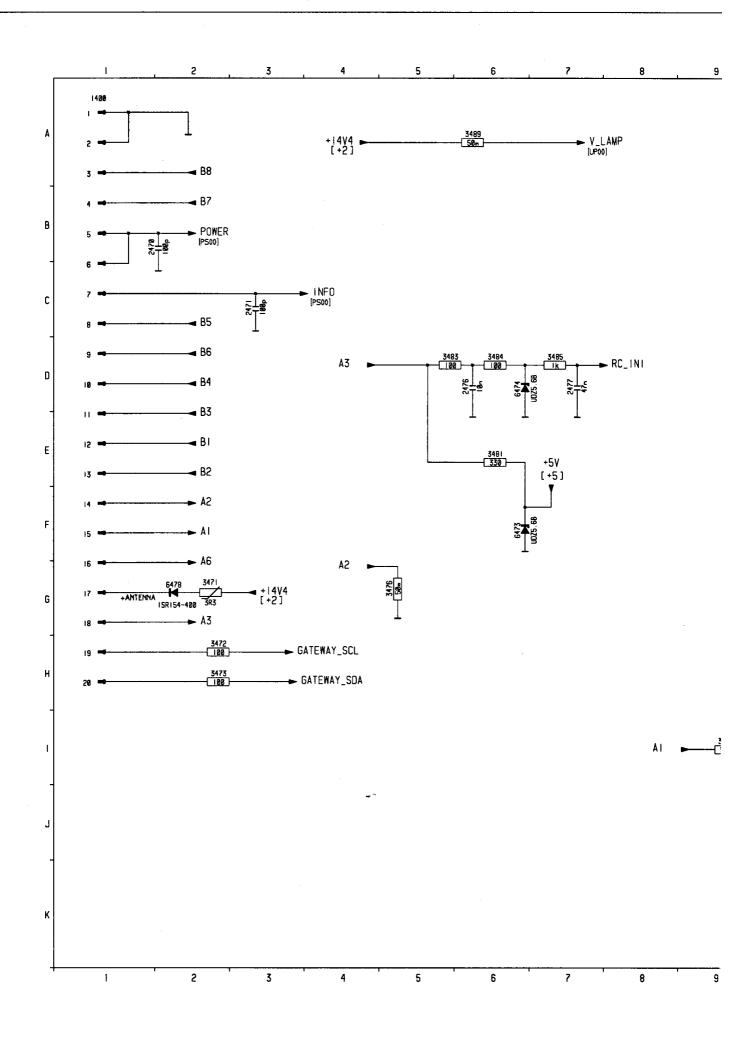
22RC634/00 - 22RC639/00 22RC639/17 - 22RC669/00

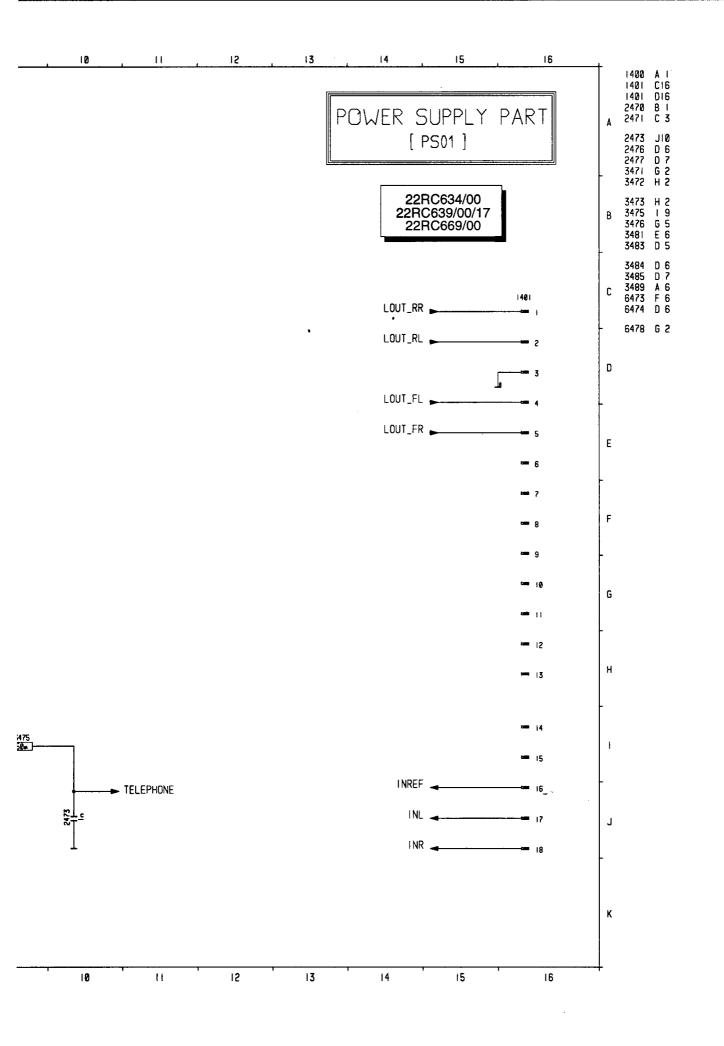


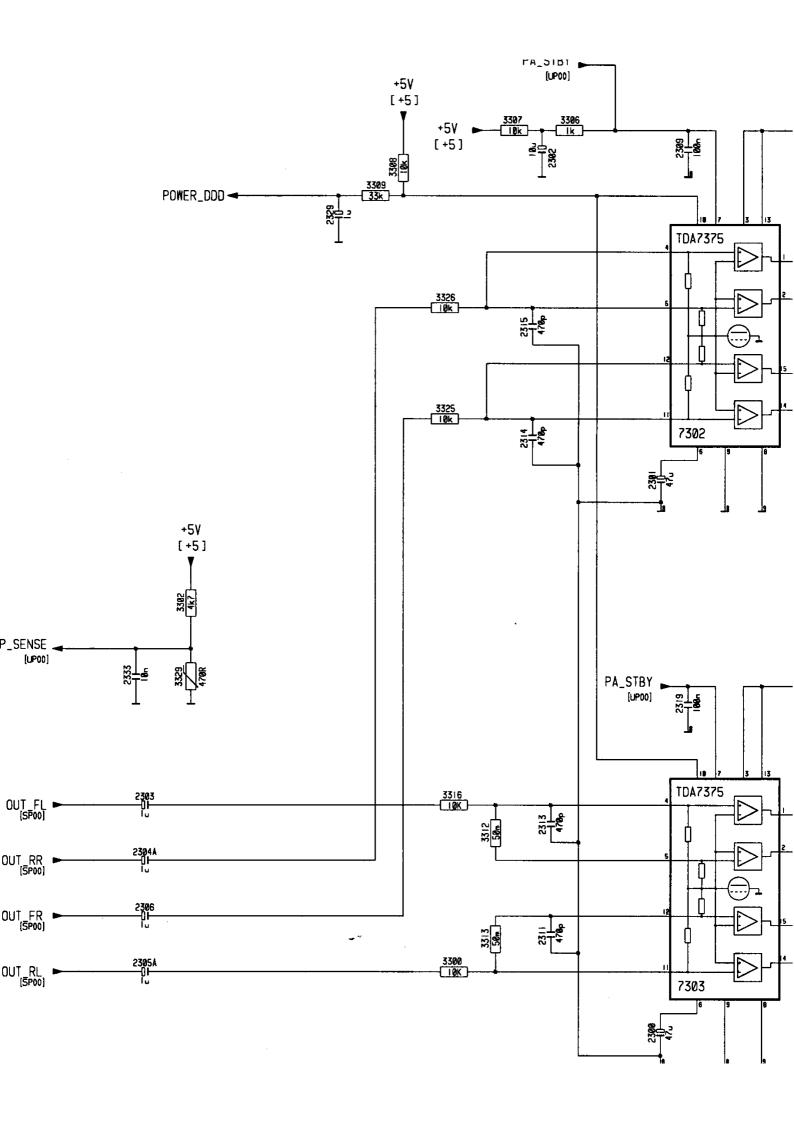


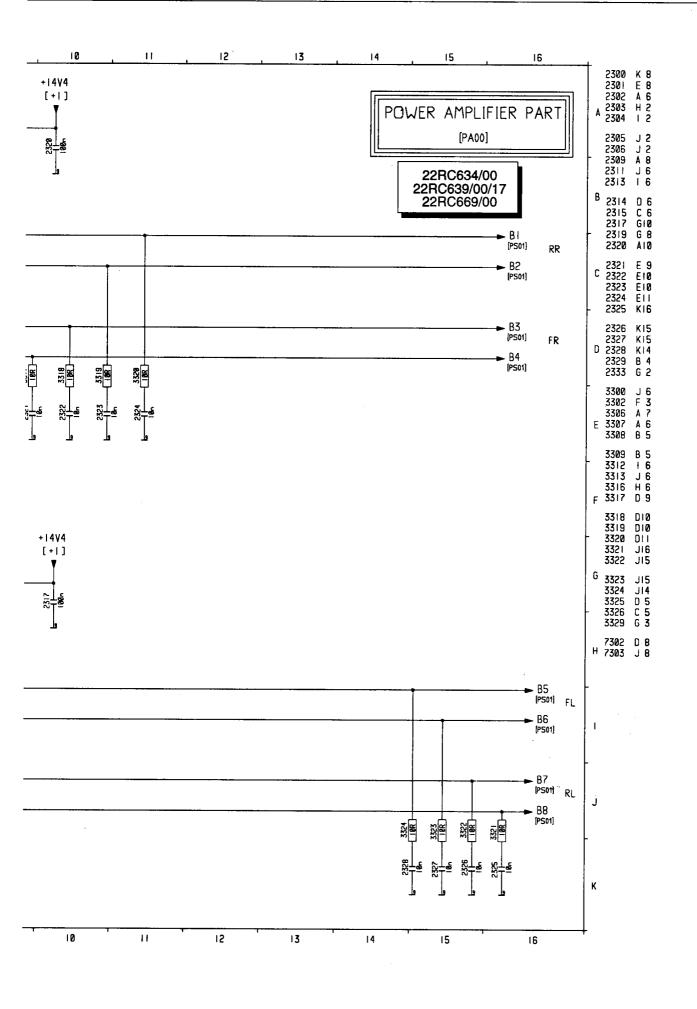


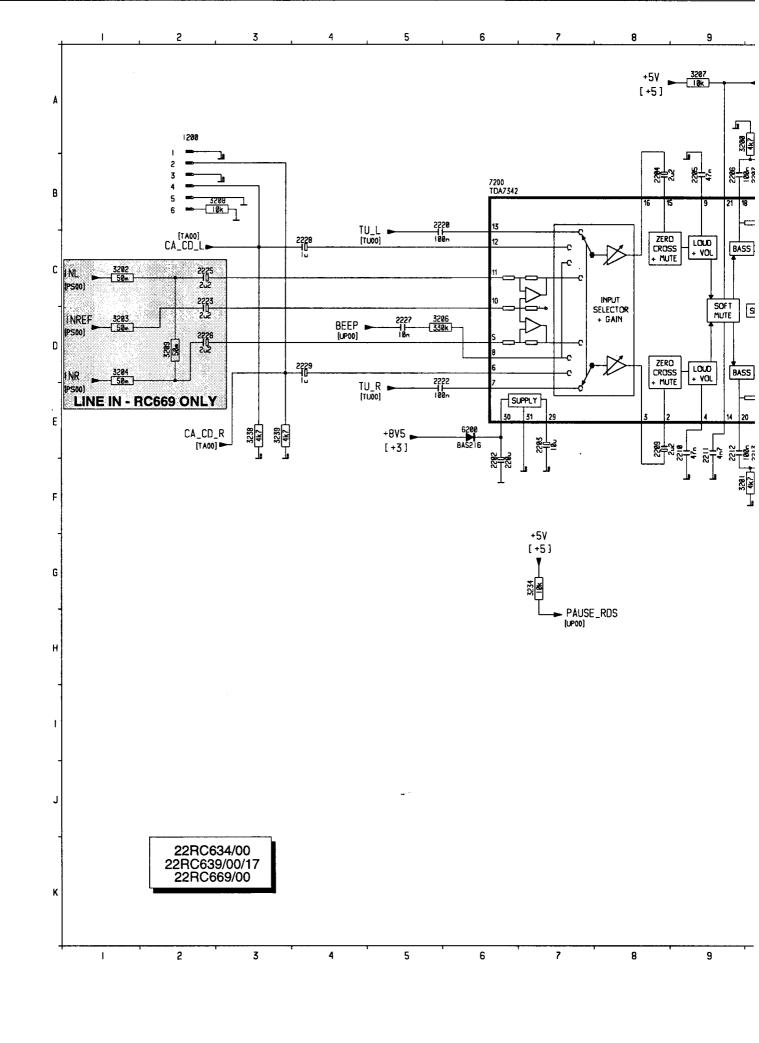


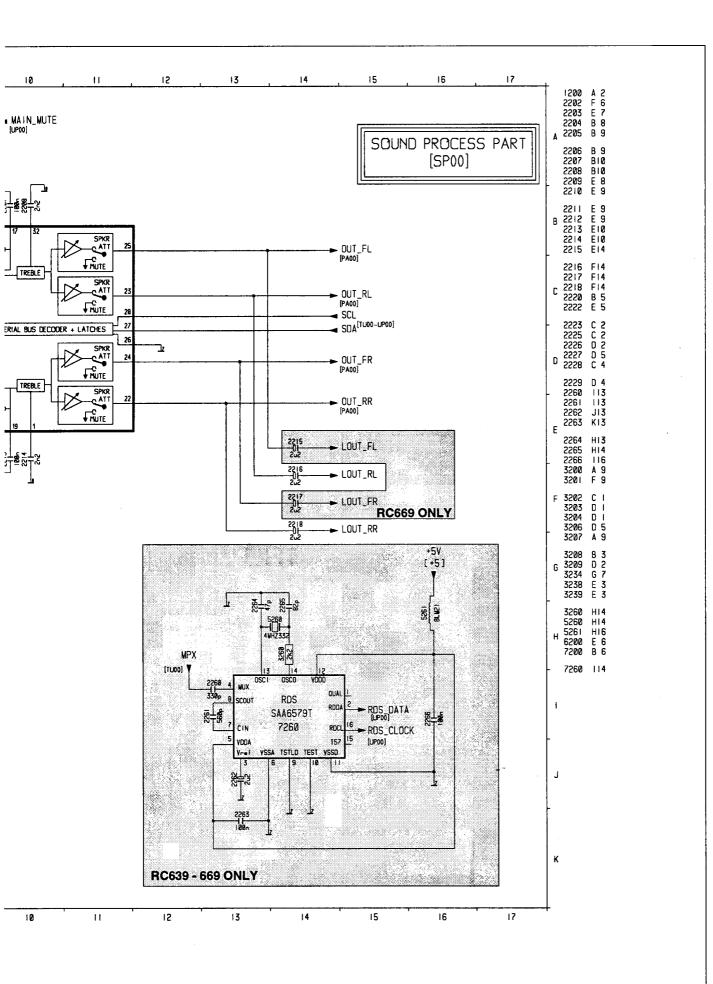


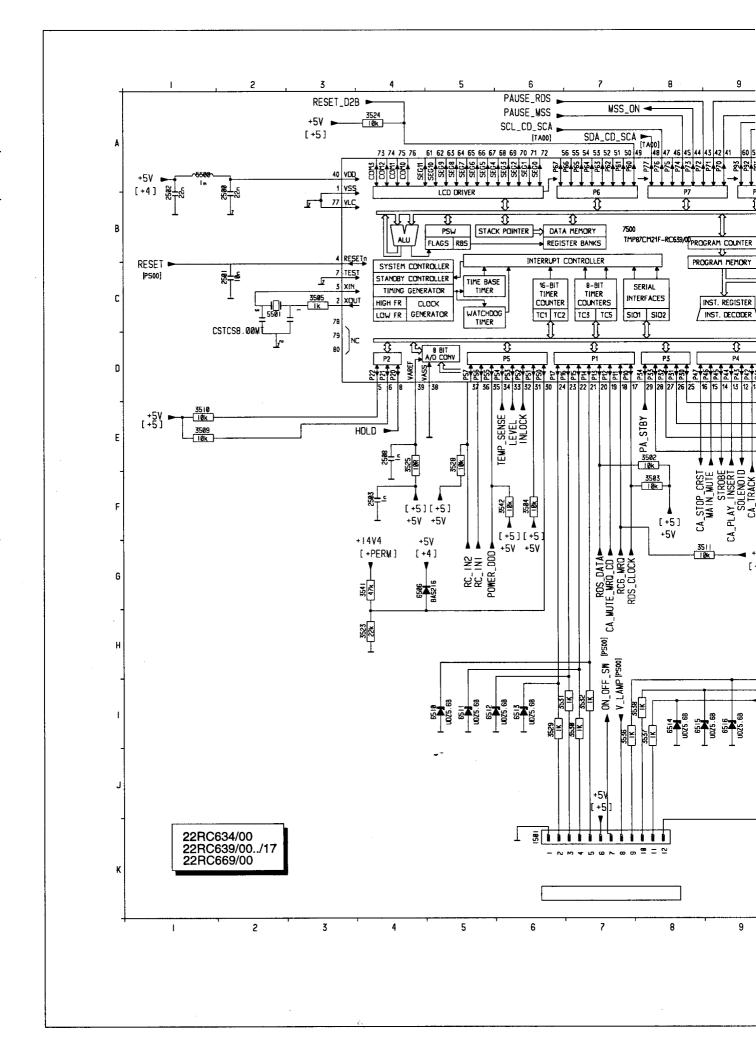


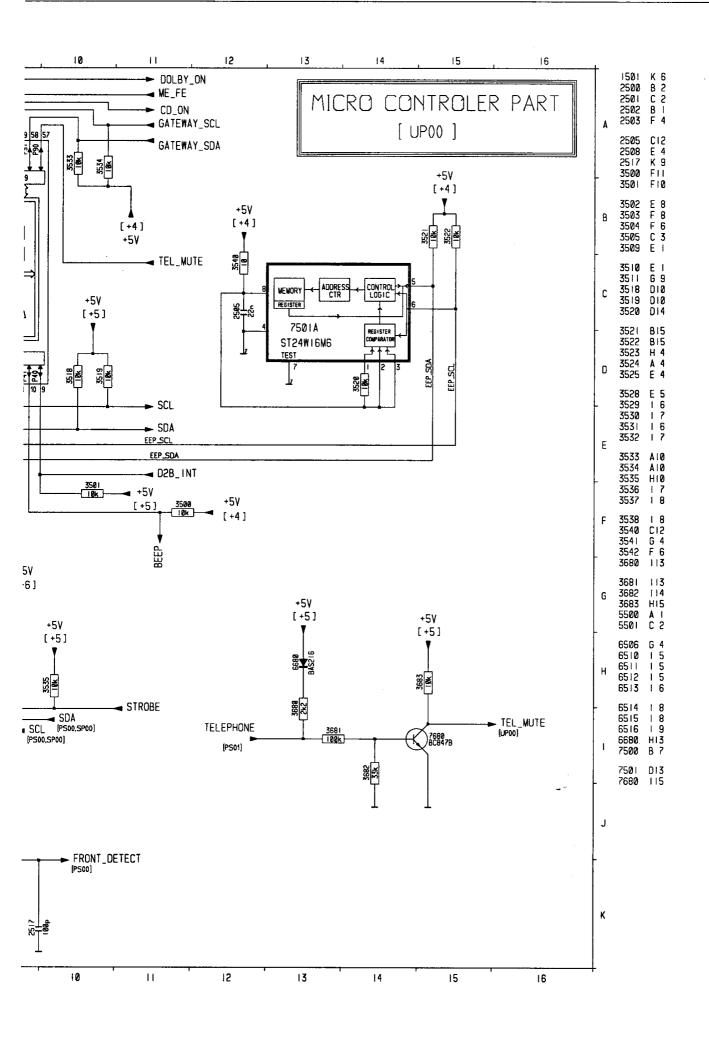


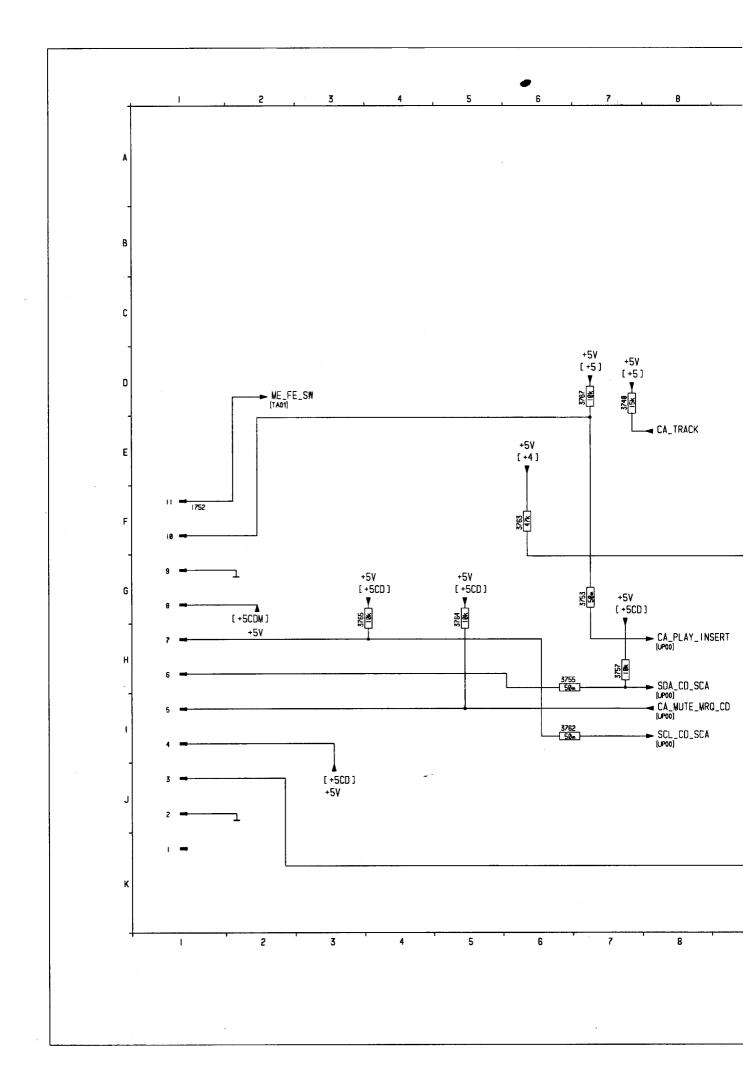


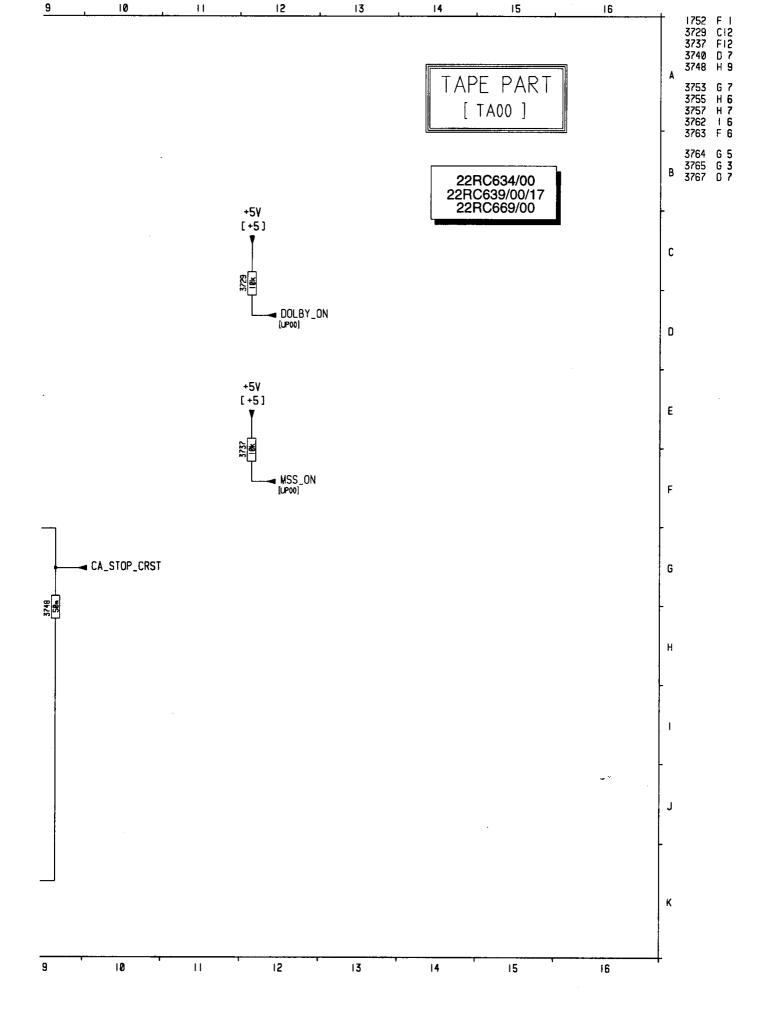


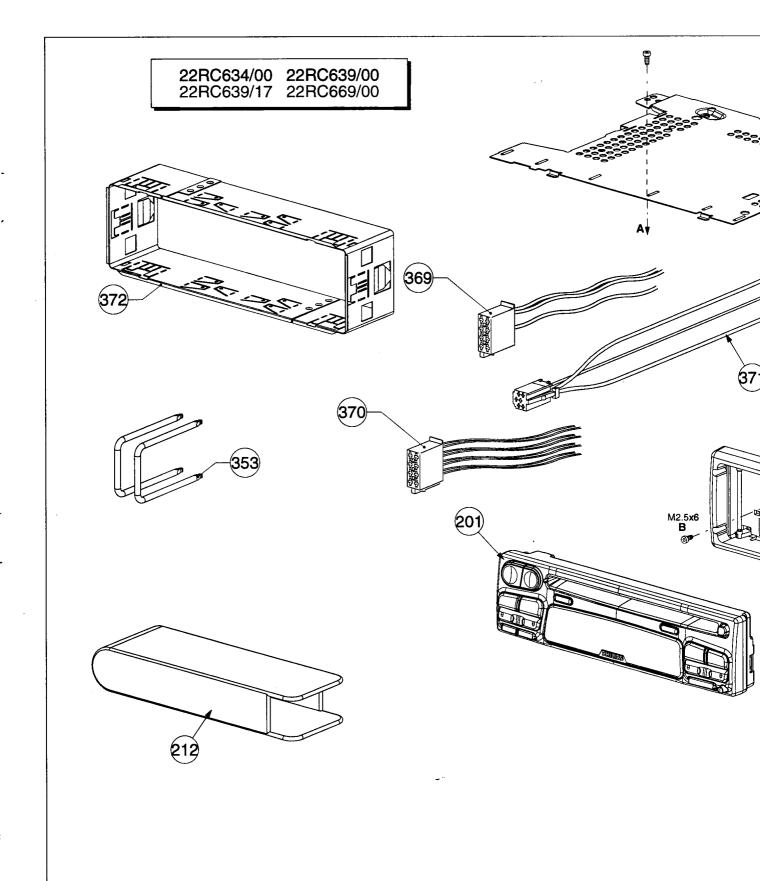




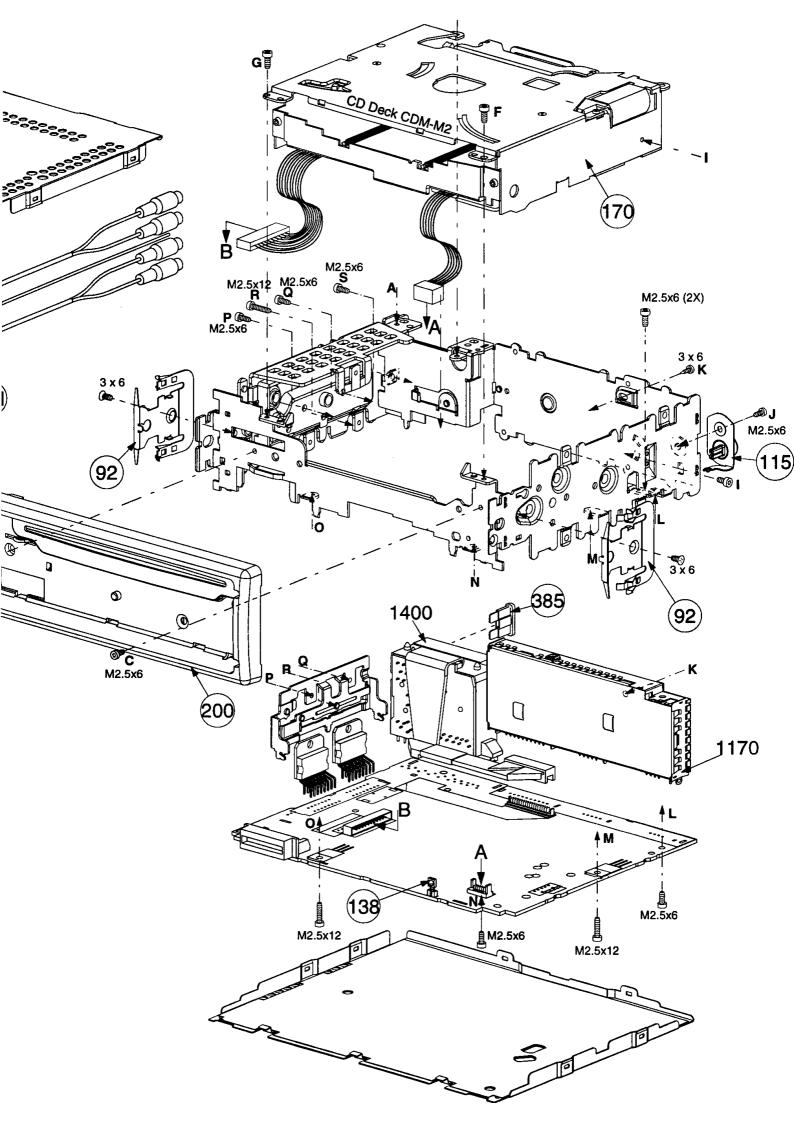








4822 492 71046	SPRING MOUNTING (X2)	353	4822 404 20437	DEMOUNTING BRACKET (X2)
4822 265 10717	CONNECTOR AERIAL ASSY	369	4822 321 11012	CABLE ADAPTOR POWER
4822 130 82996	BLINKING LED TLPR5620	370	4822 320 11637	CABLE ADAPTOR LOUDSPEAKERS
	DECK ASSY CDM-M2	371	4822 320 11902	CABLE LINE-OUT (ONLY RC634 - 639)
4822 459 05109	FIXED FRONT ASSY (RC639 RC669)	371	4822 320 12211	CABLE LINE-OUT (ONLY RC669)
4822 459 05116		372	4822 443 30463	SLEEVE
4822 459 05111		375	4822 736 16445	DIRECTIONS FOR USE (EXEPT RC639
		375	4822 736 16474	DIRECTIONS FOR USE (ONLY RC639/
4822 418 10123	DETACHABLE UNIT'S CASE	385	4822 071 21003	FUSE BLADE 10A
	4822 265 10717 4822 130 82996 4822 691 10662 4822 459 05109 4822 459 05111 4822 459 05092	4822 265 10717 CONNECTOR AERIAL ASSY 4822 130 82996 BLINKING LED TLPR5620 4822 691 10662 DECK ASSY CDM-M2 4822 459 05109 FIXED FRONT ASSY (RC639 RC669) 4822 459 05116 DETACHABLE UNIT ASSY(RC634/00) 4822 459 05111 DETACHABLE UNIT ASSY(RC639/00 ./17) 4822 459 05092 DETACHABLE UNIT ASSY(RC669/00)	4822 265 10717 CONNECTOR AERIAL AŚSY 369 4822 130 82996 BLINKING LED TLPR5620 370 4822 691 10662 DECK ASSY CDM-M2 371 4822 459 05109 FIXED FRONT ASSY (RC639 RC669) 371 4822 459 05116 DETACHABLE UNIT ASSY (RC634/00) 372 4822 459 05111 DETACHABLE UNIT ASSY (RC669/00) 375 4822 459 05092 DETACHABLE UNIT ASSY (RC669/00) 375	4822 265 10717 CONNECTOR AERIAL ASSY 369 4822 321 11012 4822 130 82996 BLINKING LED TLPR5620 370 4822 320 11637 4822 691 10662 DECK ASSY CDM-M2 371 4822 320 11902 4822 459 05109 FIXED FRONT ASSY (RC639 RC669) 371 4822 320 12211 4822 459 05116 DETACHABLE UNIT ASSY (RC639/00) 372 4822 443 30463 4822 459 05111 DETACHABLE UNIT ASSY (RC669/00) 375 4822 736 16445 4822 459 05092 DETACHABLE UNIT ASSY (RC669/00) 375 4822 736 16474



1170	63 X7R 25 63V 63V 63V 63V 63V 63V 63V 63V
1400	63 X7R 25 63V 63V 63V 63V 63V 63V 63V 63V
1440	63V 63V 63V 63V 63V 63V 63V
1501 4822 265 11286 CONN. 12P 2322 5322 122 34098 10nF10% X7R 2323 5322 122 34098 10nF10% X7R 2325 5322 122 34098 10nF 10% X7R 2325 5322 122 34098 10nF 10% X7R 2325 5322 122 34098 10nF 10% X7R 2326 5322 122 34098 10nF 10% X7R 2320 4822 124 23582 220μF 10V 2328 5322 122 34098 10nF 10% X7R 2320 4822 124 41017 10μF 16V 2329 4822 124 23282 1μF 20% 50V 2333 5322 122 34098 10nF 10% X7R 2204 4822 124 23504 2.2μF 20% 50V 2333 5322 122 34098 10nF 10% X7R 2205 4822 126 13343 47nF10% X7R 25V 2401 5322 122 34098 10nF 10% X7R 2402 4822 124 11952 100μF 20% 16V 2403 4822 126 13196 100nF 10% 0805 X7R 25V 2403 4822 126 13196 100nF 10% 0805 X7R 25V 2403 4822 126 13196 100nF 10% 0805 X7R 25V	63V 63V 63V 63V 63V 63V
1	63V 63V 63V 63V 63V
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2181 5322 122 32654 22nF10% X7R 63V 2183 5322 122 32654 22nF10% X7R 63V 2185 5322 122 34098 10nF 10% X7R 2185 5322 122 34123 1nF10% X7R 50V 2327 5322 122 34098 10nF 10% X7R 2202 4822 124 23582 220μF 10V 2328 5322 122 34098 10nF 10% X7R 2204 4822 124 23504 2.2μF 20% 50V 2205 4822 126 13196 100nF 10% X7R 25V 2206 4822 126 13196 100nF 10% 0805 X7R 25V 2207 4822 126 13196 100nF 10% 0805 X7R 25V 2208 4822 122 33127 2 2nF10% X7R 63V 2404 4822 124 22646 47μF 20% 16V 2208 4822 122 33127 2 2nF10% X7R 63V 2404 4822 124 22646 47μF 20% 16V	63V 63V 63V 63V
2182 5322 122 32654 22nF10% X7R 63V 2183 5322 122 32654 22nF10% X7R 63V 2185 5322 122 34123 1nF10% X7R 50V 2202 4822 124 23582 220μF 10V 2203 4822 124 23504 2.2μF 20% 50V 2205 4822 126 13196 100nF 10% X7R 25V 2207 4822 126 13196 100nF 10% 0805 X7R 25V 2208 4822 122 33127 2 2nF10% X7R 63V 2208 4822 122 33127 2 2nF10% X7R 63V 2404 4822 124 22646 47μF 20% 16V 2208 4822 122 33127 2 2nF10% X7R 63V 2404 4822 124 22646 47μF 20% 16V	63V 63V 63V
2183 5322 122 32654 22nF10% X7R 63V 2185 5322 122 34098 10nF 10% X7R 2320 4822 124 23582 220μF 10V 2328 5322 122 34098 10nF 10% X7R 2329 4822 124 23282 1μF 20% 50V 2333 5322 122 34098 10nF 10% X7R 2329 4822 124 23282 1μF 20% 50V 2333 5322 122 34098 10nF 10% X7R 2329 4822 124 23282 10nF 10% X7R 2401 5322 122 34098 10nF 10% X7R 2401 5322 122 34098 10nF 10% X7R 2402 4822 124 11952 100μF 20% 16V 2402 4822 124 11952 100μF 20% 16V 2403 4822 126 13196 100nF 10% 0805 X7R 25V 2403 4822 126 13196 100nF 10% 0805	63V 63V
2185 5322 122 34123 1nF10% X7R 50V 2202 4822 124 23582 220μF 10V 2328 5322 122 34098 10nF 10% X7R 2203 4822 124 41017 10μF 16V 2204 4822 124 23504 2.2μF 20% 50V 2205 4822 126 13343 47nF10% X7R 25V 2206 4822 126 13196 100nF 10% 0805 X7R 25V 2207 4822 126 13196 100nF 10% 0805 X7R 25V 2208 4822 122 33127 2 2nF10% X7B 63V 2404 4822 124 22646 47μF 20% 16V	63V 63V
2202 4822 124 23582 220μF 10V 2203 4822 124 41017 10μF 16V 2204 4822 124 23504 2.2μF 20% 50V 2205 4822 126 13343 47nF10% X7R 25V 2206 4822 126 13196 100nF 10% 0805 X7R 25V 2207 4822 126 13196 100nF 10% 0805 X7R 25V 2208 4822 122 33127 2 2nF10% X7R 63V 2329 4822 124 23282 1μF 20% 50V 2333 5322 122 34098 10nF 10% X7R 2401 5322 122 34098 10nF 10% X7R 2402 4822 122 34098 10nF 10% X7R 2403 4822 122 122 34098 10nF 10% X7R 2401 5322 122 34098 10nF 10% X7R 2402 4822 122 34098 10nF 10% X7R 2403 4822 122 34098 10nF 10% X7R 2404 4822 124 23646 47μF 20% 16V	63V
2203	
2203 4822 124 41017 10μF 16V 2204 4822 124 23504 2.2μF 20% 50V 2205 4822 126 13343 47nF10% X7R 25V 2206 4822 126 13196 100nF 10% 0805 X7R 25V 2207 4822 126 13196 100nF 10% 0805 X7R 25V 2208 4822 122 33127 2 2nF10% X7R 63V 2208 4822 122 33127 2 2nF10% X7R 63V 2208 4822 122 33127 2 2nF10% X7R 63V 2208 4822 124 22646 47μF 20% 16V	
2204 4822 124 23504 2.2μF 20% 50V 2205 4822 126 13343 47nF10% X7R 25V 2206 4822 126 13196 100nF 10% 0805 X7R 25V 2207 4822 126 13196 100nF 10% 0805 X7R 25V 2208 4822 122 33127 2 2nF10% X7B 63V 2333 5322 122 34098 10nF 10% X7R 2401 5322 122 34098 10nF 10% X7R 2402 4822 124 11952 100μF 20% 16V	
2205 4822 126 13343 47nF10% X7R 25V 2206 4822 126 13196 100nF 10% 0805 X7R 25V 2207 4822 126 13196 100nF 10% 0805 X7R 25V 2208 4822 126 13196 100nF 10% 0805 X7R 25V 2208 4822 122 33127 2 2nF10% X7B 63V 2400 4822 124 11952 100μF 20% 16V 2400 4822 126 13196 100nF 10% 0805	
2206 4822 126 13196 100nF 10% 0805 X7R 25V 2403 4822 124 11952 100μF 20% 16V 2207 4822 126 13196 100nF 10% 0805 X7R 25V 2403 4822 126 13196 100nF 10% 0805 27R 25V 2404 4822 124 22646 47μF 20% 16V	63V
2207 4822 126 13196 100nF 10% 0805 X7R 25V 2403 4822 126 13196 100nF 10% 0805 X7R 25V 2403 4822 126 13196 100nF 10% 0805 X7R 25V 2404 4822 124 22646 47μF 20% 16V	/
2207 4822 126 13196 100HF 10% 0805 X7R 25V 2404 4822 124 22646 47μF 20% 16V	
1 2208 4822 122 33127 2 20F10% X/R 63V	
1 2208 4822 122 33127 2 20F10% X/R 63V	
	5 X7R 25V
2209 4822 124 23504 2.2µF 20% 50V 2406 4822 124 80760 2200µF 20% 16V	
2210 4822 126 13343 4/NF10% X/H 25V 2407 4822 124 80769 2200 F 20% 16V	
2211 5322 126 10223 4,/NF10% X/H 63V 2400 4922 126 12940 220nF 109/ 16V	
2212 4822 126 13196 100nF 10% 0805 X7R 25V 2409 4822 126 13849 220nF 10% 16V	•
0440 4000 404 00040 47 7 0004	
2213 4822 126 13196 100nF 10% 0805 X7R 25V 2410 4822 124 22646 47µF 20% 16V	E V=D:
2214 4822 122 33127 2,2nF10% X7R 63V 2411 4822 126 13196 100nF 10% 0805	
2215 4822 124 23504 2 2µF 20% 50V 2412 4822 126 13196 100nF 10% 0805	
2216 4822 124 23504 2.2µF 20% 50V 2413 4822 126 13196 100nF 10% 0805	
2217 4822 124 23504 2.2μF 20% 50V 2415 5322 122 32654 22nF 10% X7R	63V
·	
2218 4822 124 23504 2.2μF 20% 50V 2416 4822 124 23282 1μF 20% 50V	
2220 4822 126 13196 100nF 10% 0805 X7R 25V 2417 4822 124 23279 22μF 20% 16V	
2222 4822 126 13196 100nF 10% 0805 X7R 25V 2418 4822 124 23279 22μF 20% 16V	
1 2/10 /82212///1017 10:E 16V	
2225 4622 124 25504 2.2µF 20% 50V 2420 4020 104 02070 00. F 000/ 10V	
2225 4822 124 23504 2.2μF 20% 50V	
2006 4822 124 22504 2 2μΕ 20% 50V 2421 4822 124 11952 100μF 20% 16V	<i>'</i>
2220 4622 124 25304 2.2µF 20% 50V 2422 5322 122 32654 22nF 10% Y7D 6	
2227 5322 122 34098 10nF10% X/H 63V 2423 5323 122 34009 10nF 10% X/H 63V	
2220 4622 124 23202 1µF 20% 50V 2425 5323 132 34009 105 109/ V7D 6	
2229 4822 124 23282 1µF 20% 50V 2427 4922 126 12106 1005 100 0005	
2230 4822 126 13196 100nF 10% 0805 X7R 25V 2427 4622 126 13196 100nF 10% 0805	5 X/11 25V
2001 4802 124 23504 2 20 500 50V 2428 4822 126 13849 220nF 10% 16V	•
2231 4822 124 23504 2.2µF 20% 50V 2470 5223 123 23531 100pE 59/NDO	
2232 5322 122 34123 1NF10% X/H 50V 2471 5222 122 22521 100pE 59/ND0	
2234 4822 124 23504 2.2µF 20% 50V 2473 5323 132 34133 15E109/ V7D 50	
2235 4822 126 13343 47nF10% X7R 25V 2476 5322 122 34098 10nF10%X7R 50	
2260 5322 122 31863 330pF 5% NP0 50V 2470 3322 122 34098 101F10%X/H 6	03 V
2361 5303 116 90953 5605 59/ NDO 63V 2477 4822 126 13343 47nF10% X7R 2	251/
2201 5322 116 80853 560pr 5% NPO 63V 2500 5333 133 33554 2355109/VZD 6	
2202 4822 124 23504 2.2µF 20% 50V 2501 5323 123 34098 10pE10% Y7D 6	
2203 4822 120 13 190 100NF 10% 0805 X/H 25V 2502 5323 123 33554 2355109/YZD 6	
1 2204 4822 120 13092 47DF 1% NPU 53V I	
2265 4822 126 13695 82pF 1% NPO 63V 2503 5322 122 34123 1nF10%X7R 50	O V
2505 5322 122 32654 22nF10%X7R 6	63\/
2200 4822 120 13190 100NF 10% 0805 X/H 25V 2509 5303 130 34133 155109/ XZD 50	
1 2300 4822 124 22646 471F 20% 16V 1	
2301 4822 124 22646 47μF 20% 16V 2517 5322 122 32531 100pF 5%NP0	500
2302 4822 124 41017 10μF 16V	
2303 4822 124 23282 1µF 20% 50V	
3175 4822 051 20102 1KΩ 5% 0,1W	,
2304 4822 124 23282 1μF 20% 50V 3178 4822 051 20008 0Ω JUMP. (0805)	
2305 4822 124 23282 1μF 20% 50V 3179 4822 051 20008 0Ω JUMP. (0805)	•
2306 4822 124 23282 1μF 20% 50V 3181 4822 117 10833 10KΩ 1% 0,1W	•
2309 4822 126 13196 100nF 10% 0805 X7R 25V 3182 4822 051 20562 5K6 5% 0,1W 08	
2311 5322 122 32268 470pF 10% 50V	000
3183 4822 051 20273 27ΚΩ 5% 0,1W	۸/
2313 5322 122 32268 470pF 10% 50V 3184 4822 051 20008 0Ω JUMP. (0805)	
$\begin{bmatrix} 2317 & 4822\ 126\ 13196 & 100nF\ 10\%\ 0805\ X7R\ 25 & 3202 & 4822\ 051\ 20008 & 0\Omega\ JUMP.\ (0805) \end{bmatrix}$	

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3203	4822 051 20008	0Ω JUMP. (0805)	3446	4822 117 10834	47KΩ 1% 0,1W
3204	4822 051 20008	0Ω JUMP. (0805)	3447	4822 051 20104	100ΚΩ 5% 0,1W
3206	4822 051 20334	330KΩ 5% 0,1W	3448	4822 117 11504	270Ω 1% 0.1W
3207	4822 117 10833	10ΚΩ 1% 0,1W	3449	4822 117 10834	47KΩ 1% 0,1W
3208	4822 117 10833	10ΚΩ 1% 0,1W	3450	4822 051 20105	1M0Ω 5% 0,1W
				1022 001 20100	1111022 0 70 0,111
3209	4822 051 20008	0Ω JUMP. (0805)	3451	4822 051 20105	1MΩ 5% 0,1W
3233	4822 051 20334	330KΩ 5% 0,1W	3452	4822 051 20105	1MΩ 5% 0,1W
3234	4822 117 10833	10KΩ 1% 0,1W	3453	4822 117 10834	47KΩ 1% 0,1W
3235	4822 051 20223	22KΩ 5% 0,1W	3460	4822 051 20008	0Ω JUMP. (0805)
3236	4822 051 20683	68KΩ 5% 0,1W	3471	4822 116 40267	$3\Omega 3$ 25% 20V
3237	4822 051 20104	100KΩ 5% 0,1W	3472	4822 051 20101	100Ω 5% 0,1W
3238	4822 051 20472	4K7 5% 0,1W	3473	4822 051 20101	100Ω 5% 0,1W
3239	4822 051 20472	4K7 5% 0,1W	3475	4822 051 20008	0Ω JUMP. (0805)
3260	4822 117 11449	2K2 1% 0,1W	3476	4822 051 20008	0Ω JUMP. (0805)
3300	4822 117 10833	10KΩ 1% 0,1W	1		
3300	4022 117 10033	10/12/17/8 0,100	3481	4822 051 20331	330Ω 5% 0,1W
3302	4822 051 20472	4K7 5% 0,1W	3483	4822 051 20101	100Ω 5% 0,1W
3306	4822 051 20102	1KΩ 5% 0,1W	3484	4822 051 20101	100Ω 5% 0,1W
3307	4822 117 10833	10KΩ 1% 0,1W	3485	4822 051 20102	1KΩ 5% 0,1W
3308	4822 117 10833	10ΚΩ 1% 0,1W	3489	4822 051 20008	0Ω JUMP. (0805)
3309	4822 051 20333	33ΚΩ 5% 0,1W	3494	4822 117 11449	2K2 1% 0,1W
5500	001 20000	001 WE 0 /0 0, 1 TY	0784	7066 11/ 11 443	4114 1/0 U, 1VV
3312	4822 051 20008	0Ω JUMP. (0805)	3500	4822 117 10833	10KΩ 1% 0,1W
3313	4822 051 20008	0Ω JUMP. (0805)	3501	4822 117 10833	10KΩ 1% 0,1W
3316	4822 117 10833	10KΩ 1% 0,1W	3502	4822 117 10833	10KΩ 1% 0,1W
3317	4822 051 20109	10Ω 5% 0,1W	3503	4822 117 10833	10KΩ 1% 0,1W
3318	4822 051 20109	10Ω 5% 0,1W	3504	4822 117 10833	10ΚΩ 1% 0,1W
		3,000		1022 117 10000	10142 170 0,100
3319	4822 051 20109	10Ω 5% 0,1W	3505	4822 051 20102	' 1KΩ 5% 0,1W
3320	4822 051 20109	10Ω 5% 0,1W	3509	4822 117 10833	10KΩ 1% 0,1W
3321	4822 051 20109	10Ω 5% 0,1W	3510	4822 117 10833	10KΩ 1% 0,1W
3322	4822 051 20109	10Ω 5% 0,1W	3511	4822 117 10833	10KΩ 1% 0,1W
3323	4822 051 20109	10Ω 5% 0,1W	3518	4822 117 10833	10KΩ 1% 0,1W
2204	4900 054 00400	100 ED/ 0 4144	0540	4000 447 4000	40160 464 - 6 4311
3324	4822 051 20109	10Ω 5% 0,1W	3519	4822 117 10833	10KΩ 1% 0,1W
3325	4822 117 10833	10ΚΩ 1% 0,1W	3520	4822 117 10833	10KΩ 1% 0,1W
3326	4822 117 10833	10KΩ 1% 0,1W	3521	4822 117 10833	10KΩ 1% 0,1W
3329	4822 116 10062	470Ω 50% 16V PTC 0805	3522	4822 117 10833	10KΩ 1% 0,1W
3398	4822 051 20008	0Ω JUMP. (0805)	3523	4822 051 20223	22KΩ 5% 0,1W
3409	4822 051 20104	100KΩ 5% 0,1W	3524	4822 117 10833	10KΩ 1% 0,1W
3410	4822 051 20333	33KΩ 5% 0,1W	3525	4822 051 20109	10Ω 5% 0,1W
3411	4822 051 20393	39KΩ 5% 0,1W^	3528	4822 117 10833	10KΩ 1% 0,1W
3412	4822 051 20229	22Ω 5% 0,1W	3529	4822 051 20102	
3413	4822 117 10834	47KΩ 1% 0,1W	3530	4822 051 20102	1KΩ 5% 0,1W 1KΩ 5% 0,1W
				00, 20102	·
3414	4822 117 10834	47KΩ 1% 0,1W	3531	4822 051 20102	1KΩ 5% 0,1W
3416	4822 117 10834	47KΩ 1% 0,1W	3532	4822 051 20102	1KΩ 5% 0,1W
3417	4822 051 20472	4K7 5% 0,1W	3533	4822 117 10833	10KΩ 1% 0,1W
3420	4822 051 20681	680Ω 5% 0,1W	3534	4822 117 10833	10KΩ 1% 0,1W
3421	4822 117 11449	2K2 1% 0;1W	3535	4822 117 10833	10KΩ 1% 0,1W
3422	4822 051 20224	220KΩ 5% 0,1W	3536	4922 AE4 20400	1KO 59/ 0 1\M
			1	4822 051 20102	1KΩ 5% 0,1W
3423	4822 051 20474	470KΩ 5% 0,1W	3537	4822 051 20102	1KΩ 5% 0,1W
3424	4822 051 20184	180KΩ 5% 0,1W	3538	4822 051 20102	1KΩ 5% 0,1W
3425	4822 051 20224	220KΩ 5% 0,1W	3540	4822 051 20109	10Ω 5% 0,1W
3426	4822 051 20392	3K9 5% 0,1W	3541	4822 117 10834	47KΩ 1% 0,1W
3427	4822 051 20223	22KΩ 5% 0,1W	3542	4822 117 10833	10KΩ 1% 0,1W
3428	4822 051 20229	22Ω 5% 0,1W	3680	4822 117 11449	2K2 1% 0,1W
3429	4822 117 10833	10KΩ 1% 0,1W	3681	4822 051 20104	100KΩ 5% 0,1W
3431	4822 051 20104	100KΩ 5% 0,1W	3682	4822 051 20104	
3432	4822 117 10833	10KΩ 1% 0,1W	3683	4822 117 10833	33KΩ 5% 0,1W 10KΩ 1% 0,1W
				.5 /// 10000	101144 1/0 0,111
3435	4822 051 20472	4K7 5% 0,1W	3729	4822 117 10833	10KΩ 1% 0,1W
3436	4822 051 20472	4K7 5% 0,1W	3737	4822 117 10833	10KΩ 1% 0,1W
3439	4822 117 11449	2K2 1% 0,1W	3740	4822 051 20153	15KΩ 5% 0,1W
	4822 117 10834	47KΩ 1% 0.1W	3748	4822 051 20008	0Ω JUMP. (0805)
3440	4022 117 10004				

		- A-1	Ø	<u>propososo</u>	
	•		Q		
3755	4822 051 20008	0Ω JUMP. (0805)	7415	4822 130 60511	BC847B
3757	4822 117 10833	10KΩ 1% `0,1W	7416	4822 130 60511	BC847B
3762	4822 051 20008	0Ω JUMP. (0805)	7417	4822 130 10839	2SD2061
3763	4822 117 10834	47KΩ 1% [`] 0,1Ẃ	7418	4822 130 10839	2SD2061
3764	4822 117 10833	10KΩ 1% 0,1W	7420	5322 130 60508	BC857
0,04	40LL 117 10000	10142170 0,111		3322 133 3333	
3765	4822 117 10833	10KΩ 1% 0,1W	7500	4822 209 16898	TMP87CM21F
3767	4822 117 10833	10KΩ 1% 0,1W	7501	4822 900 11262	ST24W16 - RC639/00/17
3800	4822 051 20229	22Ω 5% 0,1W	7501	4822 900 11268	ST24W16 - RC634/00
3801	4822 051 20229	22Ω 5% 0,1W	7501	4822 900 11269	ST24W16 - RC669/00
3001	4822 031 20229	2222 376 0,100	7680	4822 130 60511	BC847B
1 ~~	~ - -		7000	4022 100 00011	200472
- ' '	- 101				
5172	4822 157 10975	120μH 10%	FR.	ONT PARTS	
5173	4822 157 71184	10μH 10%	1	3111 17 111 13	
5260	4822 242 80259	LN-G38-311 (4,332MHZ)	1900	4822 276 13999	SWITCH
5261	4822 157 71206	BLM21A601SPT	1901	4822 276 13999	SWITCH
5420	4822 157 70935	COIL ASSY 97µH 10A	1902	4822 276 13999	SWITCH
			1902	4822 276 13999	switch
5421	4822 158 10471	0,22μH 20% 4X9,8	1903	4822 276 13999	SWITCH
5500	4822 157 11207	EL0405RA-102K-3	1304	TOLL 210 13333	3,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
5501	4822 242 10753	CSTCS8,00MT-TC	1905	4822 276 13999	SWITCH
	11		ı		SWITCH
→	₩		1906	4822 276 13999	
	· ·		1907	4822 276 13999	SWITCH
6200	4822 130 83757	BAS216	1908	4822 276 13999	SWITCH
6402	4822 130 83757	BAS216	1909	4822 276 13999	SWITCH
6403	4822 130 83757	BAS216	1,040	4000 070 40000	OMETOLI
6404	4822 130 10488	S3G	1910	4822 276 13999	SWITCH
6407	4822 130 10877	UDZ9.1B	1911	4822 276 13999	SWITCH
			1912	4822 276 13999	SWITCH
6408	4822 130 10185	UDZ5.6B	1915	4822 276 13999	SWITCH
6409	4822 130 10655	1SR154-400	1916	4822 276 13999	SWITCH
6410	4822 130 10655	1SR154-400	I		
6412	4822 130 83757	BAS216	1917	4822 276 13999	SWITCH
6413	4822 130 83757	BAS216	1940	4822 134 10014	115MA 5V ORANGE
			1941	4822 134 10014	115MA 5V ORANGE
6473	4822 130 10185	UDZ5.6B	1942	4822 134 10015	115MA 5V GREEN
6474	4822 130 10185	UDZ5.6B	1943	4822 134 10015	115MA 5V GREEN
6478	4822 130 10655	1SR154-400	 		
6506	4822 130 83757	BAS216	11-		
6510	4822 130 10185	UDZ5.6B		T000 400 000E4	00-E 400/ YZD 00\/
33.3			2900	5322 122 32654	22nF 10% X7R 63V
6511	4822 130 10185	UDZ5.6B	2901	5322 122 32654	22nF 10% X7R 63V
6512	4822 130 10185	UDZ5.6B	2902	5322 122 32654	22nF 10% X7R 63V
6513	4822 130 10185	UDZ5.6B	2903	5322 122 32654	22nF 10% X7R 63V
6514	4822 130 10185	UDZ5.6B		_	
6515	4822 130 10185	UDZ5.6B	-[
3513	-TOLE 100 10100	J	3900	4822 051 20122	1K20 5% 0,1W
6516	4822 130 10185	UDZ5.6B	3901	4822 051 20101	100Ω 5% 0,1W
6680	4822 130 10103	BAS216	3902	4822 051 20122	1K20 5% 0,1W
1000	TOLE 100 00707	2,102.10	3903	4822 117 11503	220Ω 1% 0.1W
I Ø	D		3904		560Ω 5% 0,1W
Q	**************************************		5554		
7200	4822 209 12723	TDA7342	3905	4822 051 20101	100Ω 5% 0,1W
7230	4822 209 83159	LA2000 (SANYO)	3906	4822 051 20223	22KΩ 5% 0,1W
7260	4822 209 31981	SAA6579T	3907		22KΩ 5% 0,1W
7302	4822 209 33629	TDA7375	3908	4822 051 20223	22KΩ 5% 0,1W
7303	4822 209 33629	TDA7375	3909	4822 051 20223	22KΩ 5% 0,1W
			0303	4022 001 20220	
7402	4822 209 15418	L4949ED	3910	4822 117 10833	10KΩ 1% 0,1W
7403	4822 130 60511	BC847B	3911	4822 117 11503	220Ω 1% 0.1W
7404	5322 130 60508	BC857B			220Ω 1% 0.1W
7405	4822 130 40995	BD438	3912		
7407	4822 130 60511	BC847B	3913		220Ω 1% 0.1W
1	.522 .00 00011	_	3921	4822 117 11503	220Ω 1% 0.1W
7409	5322 209 14477	HEF4013BT		,	0000 401 0 4111
7410	5322 130 60508	BC857B	3923		220Ω 1% 0.1W
7410	4822 130 40995	BD438	3925		220Ω 1% 0.1W
7411	4822 130 60511	BC847B	3927		330Ω 5% 0,1W
		BC857B	3928		330Ω 5% 0,1W
7414	5322 130 60508	DQ037B	3929	4822 117 11503	220Ω 1% 0.1W
					

			Technician's Remarks
3931	4822 117 11504	270Ω 1% 0.1W	
3933	4822 117 11504	270Ω 1% 0.1W	
3942	4822 117 11449	2K2 1% 0,1W	
3943	4822 117 11449	2K2 1% 0,1W	
3946	4822 117 10834	47K 1% 0,1W	
3947	4822 117 10833	10KΩ 1% 0,1W	
3948	4822 051 20008	0Ω JUMP. (0805)	
3950	4822 117 10353	150Ω 1% 0,1W	
3951	4822 117 10353	150Ω 1% 0,1W	
3952	4822 117 10353	150Ω 1% 0,1W	
3953	4822 117 10353	150Ω 1% 0,1W	
3954	4822 117 10353	150Ω 1% 0,1W	
3961	4822 117 11503	220Ω 1% 0.1W	
3962	4822 117 11503	220Ω 1% 0.1W	
3963	4822 117 11503	220Ω 1% 0.1W	
			, '
3964	4822 117 11503	220Ω 1% 0.1W	
3965	4822 117 11504	220Ω 1% 0.1W	
3966	4822 117 11504	220Ω 1% 0.1W	
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6900	4822 130 10185	UDZ5.6B	·
6901	4822 130 10185	UDZ5.6B	
6902	4822 130 10185	UDZ5.6B	
6903	4822 130 83757	BAS216	
6904	4822 130 83757	BAS216	
6905	4822 130 83757	BAS216	
6906	4822 130 83757	BAS216	
6907	4822 130 83757	BAS216	
6910	4822 130 10186	LYT670-JK-E9231	
6912	4822 130 10186	LYT670-JK-E923	
6914	4822 130 10186	LYT670-JK-E923	
6916	4822 130 10186	LYT670-JK-E923	
6918	4822 130 10186	LYT670-JK-E923	
6920 6922	4822 130 10186 4822 130 10186	LYT670-JK-E923	
0922	4022 130 10100	LYT670-JK-E923	
6924	4822 130 10186	LYT670-JK-E923	
6926	4822 130 10186	LYT670-JK-E923	
6928	4822 130 11175	LST670-JK	
6934	4822 130 10186	LYT670-JK-E9231	
6936	4822 130 10186	LYT670-JK-E9231	
6938	4822 130 10186	LYT670-JK-E9231	
6942	4822 130 10186	LYT670-JK-E9231	
6944	4822 130 10186	LYT670-JK-E9231	
6946	4822 130 10186	LYT670-JK-E9231	
6948	4822 130 10186	LYT670-JK-E9231	~·
~	2000 000000000000000000000000000000000		
Q Q	-		
7900	5322 209 11306	HEF4094BT	
7901	4822 209 15482	PCF8576CH/F1	
7902	4822 130 42615	BC817-40	
7903	4822 130 42615	BC817-40	
7906	5322 130 60508	BC857B	
			<u> </u>
7907	4822 130 60511	BC847B	
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